

Fig.1

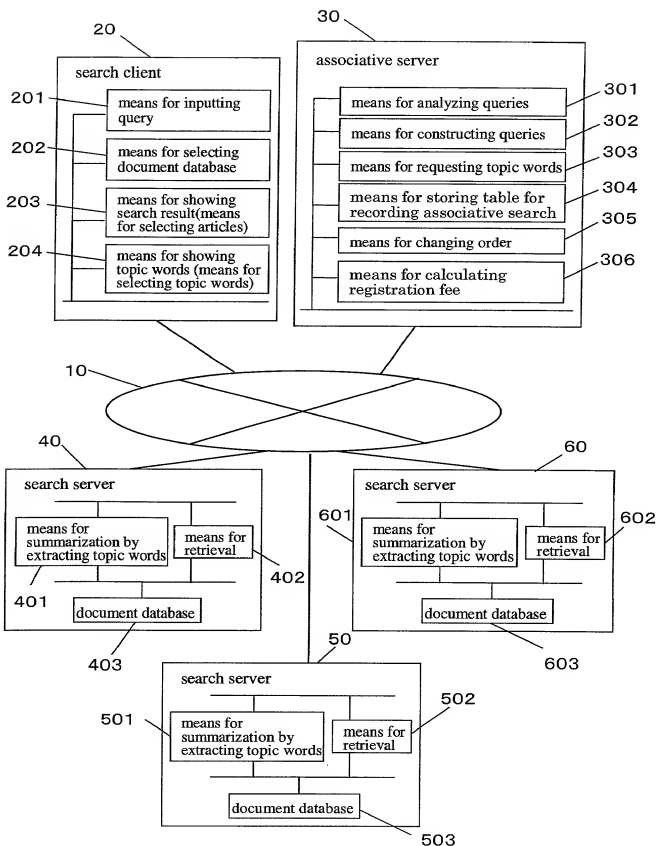


Fig.2

20

201

2011

keyword 1

2012

search

202

2021

☒ DB<sub>1</sub>

☐ DB<sub>2</sub>

☐ DB<sub>3</sub>

2022

203

2031

☐ ☐ article 1 :... ..

☐ ☐ article 2 :... ..

☐ ☐ article 3 :... ..

☐ ☐ article 4 :... ..

☐ ☐ article 5 :... ..

2032

associative document search

2033

204

2041

☐ word 1 ☐ word 2 ☐ word 3 ☐ word 4 ☐ word 5

☐ word 6 ☐ word 7 ☐ word 8 ☐ word 9 ☐ word 10

2042

search from topic words

Fig.3

From \ To	DB <sub>1</sub>	DB <sub>2</sub>	DB <sub>3</sub>	Total
DB <sub>1</sub>	$x_{11}$	$x_{12}$	$x_{13}$	$X_1$
DB <sub>2</sub>	$x_{21}$	$x_{22}$	$x_{23}$	$X_2$
DB <sub>3</sub>	$x_{31}$	$x_{32}$	$x_{33}$	$X_3$
Keyword	$x_{41}$	$x_{42}$	$x_{43}$	$X_4$
Total	$Y_1$	$Y_2$	$Y_3$	

$$X_i = \sum_{j=1}^3 x_{ij}$$

$$Y_j = \sum_{i=1}^4 x_{ij}$$

Fig.4

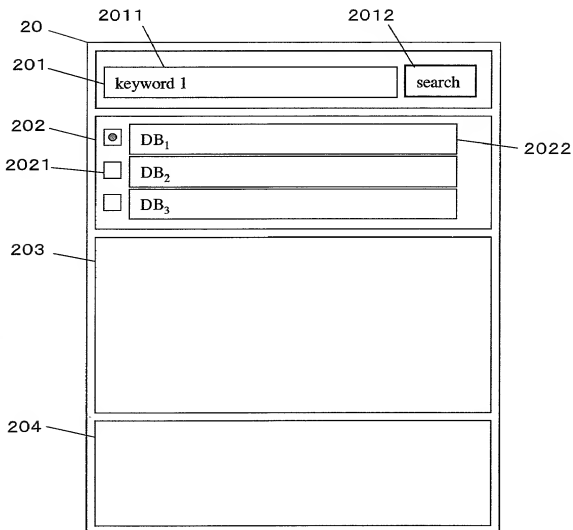


Fig.5

From \ To	DB <sub>1</sub>	DB <sub>2</sub>	DB <sub>3</sub>	Total
DB <sub>1</sub>	10	20	30	60
DB <sub>2</sub>	...	...	...	...
DB <sub>3</sub>	...	...	...	...
Keyword	60	40	20	120
Total	...	...	...	

Fig.6

20

2011

2012

201

keyword 1

search

202

2021

DB<sub>3</sub>

DB<sub>2</sub>

DB<sub>1</sub>

2022

203

2031

article 1 :... ..

article 2 :... ..

article 3 :... ..

article 4 :... ..

article 5 :... ..

2032

associative document search

2033

204

2041

word 1 word 2 word 3 word 4 word 5

word 6 word 7 word 8 word 9 word 10

2042

search from topic words

Fig.7

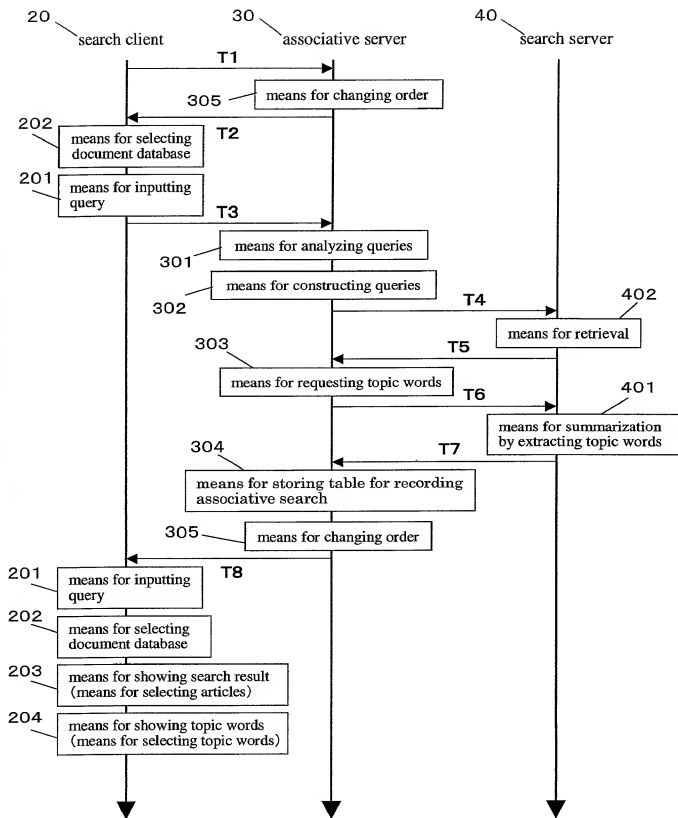


Fig.8

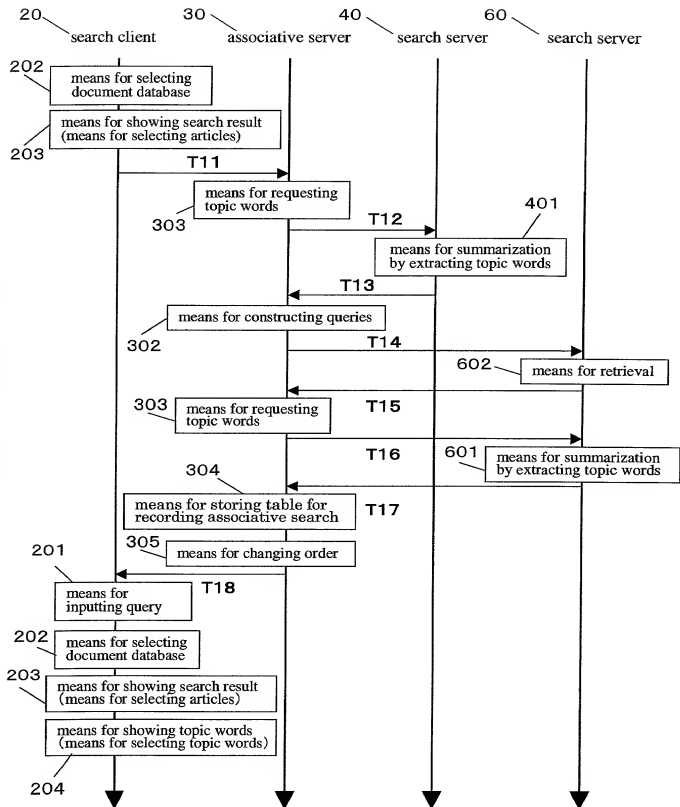




Fig.9

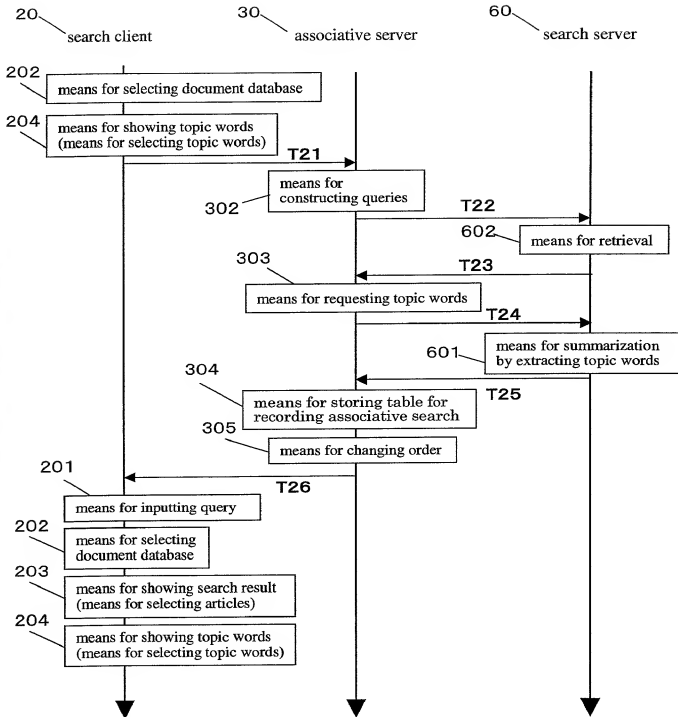


Fig.10

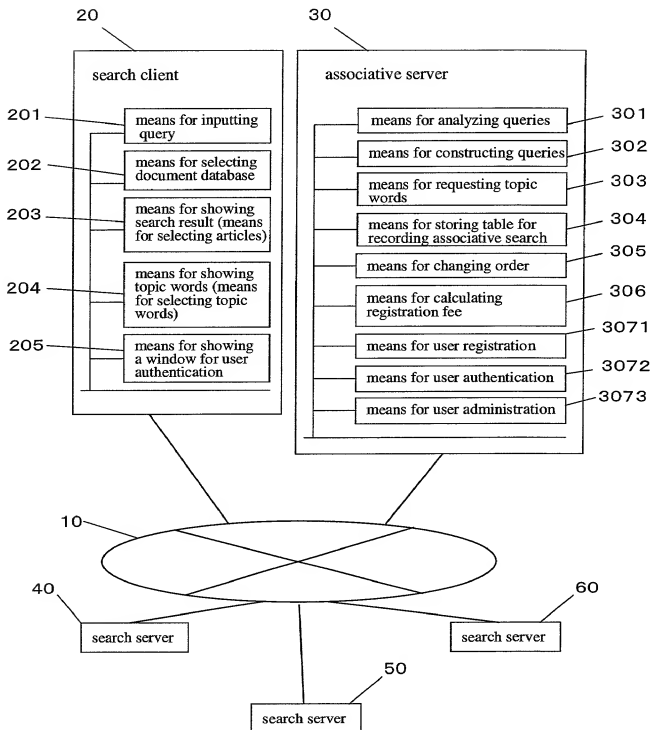


Fig.11

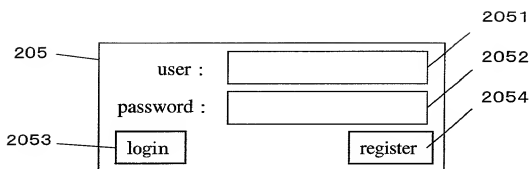


Fig.12

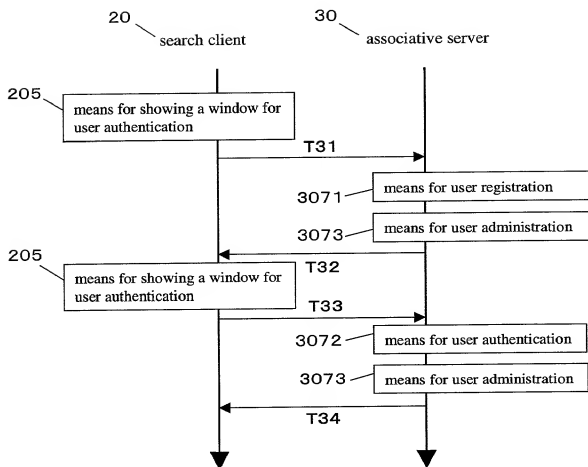


Fig.13

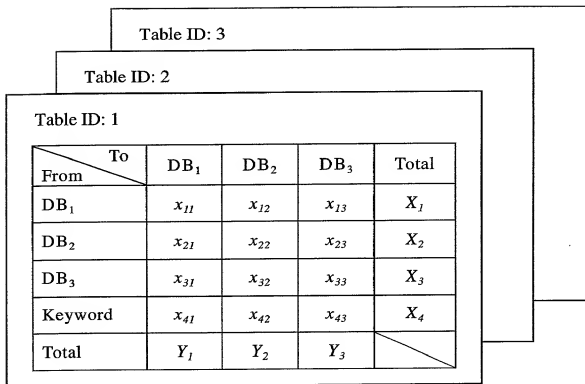


Table ID: 1

From \ To	DB <sub>1</sub>	DB <sub>2</sub>	DB <sub>3</sub>	Total
DB <sub>1</sub>	$x_{11}$	$x_{12}$	$x_{13}$	$X_1$
DB <sub>2</sub>	$x_{21}$	$x_{22}$	$x_{23}$	$X_2$
DB <sub>3</sub>	$x_{31}$	$x_{32}$	$x_{33}$	$X_3$
Keyword	$x_{41}$	$x_{42}$	$x_{43}$	$X_4$
Total	$Y_1$	$Y_2$	$Y_3$	

Fig.14

user ID	user name	password	table ID	registration date
11	AAAA	****	1	YYYYMMDD
22	BBBB	****	2	YYYYMMDD
33	CCCC	****	3	YYYYMMDD